

RESIMETAL 108 Pipe Repair Tape

108 Emergency Pipe Repair Tape is a high performance rapid curing moisture activated repair bandage, specifically developed for the repair of leaking pipes, which is activated by immersion in water.

108 Emergency Pipe Repair Tape is ideal for pipe repairs to low pressure systems. As a general guide, a repair built up to a thickness of approximately 12mm ($\frac{1}{2}$ ") will withstand a maximum service pressure of 10 bar (150 psi). Higher pressures, up to 50 bar, can be achieved by first applying a 'plug' of **103 Metal Repair Stick** as described herein, always at users discretion.

Product Features

- Easy to apply, requiring no special tools or equipment.
- Specially selected woven polyester fabric impregnated with a polyurethane resin which is activated by immersion in water.
- Ideal for repairing pipes operating at low pressures.
- Designed for use for repairs up to 500mm diameter.
- Can be used on a wide variety of surfaces, including all metals and many types of plastics.

Correct bandage size is relevant to pipe dimension (with holes approximately 3-6mm diameter).

Surface Preparation

All pressure should be removed from the pipe. For leaks where pressure cannot be removed, holes should be stopped using 103 Metal Repair Stick. Remove all oil, grease, loose rust scale, sealant tape and paint from the repair area. Rough score a 10cm (4 inch) patch around the pipe centering on the leak site.

If the pipe is pitted with rust, surfaces must be wire brushed to remove the loose scale. If the surface is smooth, as with copper or stainless steel, surfaces should be roughened with a course file, rasp or saw blade. For plastic pipe, the external mould release must be removed. Abrade surfaces with coarse grit sandpaper. A saw blade may also be used to create a crosshatch pattern. This is particularly useful on polypropylene and PVDF piping.

Mixing and Application

Before and during application, lightweight disposable gloves should be worn to protect the hands.

108 Emergency Pipe Repair Tape is a single component material, which should be immersed in water and squeezed two or three times for about five seconds prior to use.

Remove roll from water and wrap quickly and tightly as follows.

Centre tape over leak site, wrap from bottom of roll, pulling firmly throughout application. After 5-7 plies, resin foam will come through the tape, which is desirable and aided by pulling tightly. Continue until entire roll is applied, building to a minimum thickness of 12mm ($\frac{1}{2}$ "), use a second roll if necessary. Firmly press and smooth end of roll into wrap in the direction of application. Wet gloves in water, smooth and firmly press the wet resin back into the wrap.

When used in conjunction with a 'plug' of 103 Metal Repair Stick repair please follow the instructions - Knead a bead of putty in a gloved hand and flatten out into a disc centrally over the hole pressing gently and feathering the edges.

Leave to semi-harden (full cure 20 minutes) before applying the tape, although the tape may be applied immediately if necessary.

KEEP HANDS MOVING QUICKLY AND WET GLOVES FREQUENTLY TO AVOID STICKING

Continue rapid hand movement pressing and polishing resin in motions around and parallel to the pipe. Continue process until resins are no longer tacky. The repair should now have a smooth, hard surface and an enamel-like appearance with no fabric protruding through the surface.

NOTE: If a thicker application is needed, spend a little less time finishing the first roll and immediately begin the application of the next. Finish the final roll as if a single roll application.

Cure Times

At 20°C (68F°) the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures:

Usable Life	2-3mins
Initial Set	5mins
Full cure	30mins

Pack Sizes

This product is available in the following pack sizes –
50mm x 1.8mtr
50mm x 3.6mtr
75mm x 3.6mtr
100mm x 3.6mtr

Colour

Mixed material - White

Storage Life

1 year if unopened and store in normal dry conditions (15-30°C/ 60-86F°)

Bandage size – Pipe diameter

BANDAGE SIZE	PIPE DIAMETER
50MM X 1.8MTR	>100MM
50MM X 3.6MTR	>200MM
75MM X 3.6MTR	>300MM
100MM X 3.6MTR	>400MM

Technical data and Performance

Maximum Heat Resistance	270°C
Maximum Pressure Resistance	12mm thick layer of resin – 10 bar (145psi) 25mm thick layer of resin – 27 bar (400psi)
Tensile Strength ASTM D6382	2740psi
Flexural Strength ASTM D790	4640psi
Shore D Hardness ASTM D2240	82
Adhesion (Bond Strength) Abrasive blast cleaned mild steel	2000psi

Chemical Resistance

CHEMICAL	RESISTANCE
Citric Acid <10%	R
Crude Oil	R
Diesel	R
Formic Acid <10%	R
Phosphoric Acid <50%	R
Sulphuric Acid <20%	R

Key: R – Resistant for continuous immersion.

Health and Safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read the fully detailed Material Safety Data Sheet.

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